PBL - Kickoff - This week 10/18/2017 made for free at coggle.it 1st step Choose - SMS, QMS, or EMS 2nd step Choose - Roles of the team (4 people) Safety/Quality Manager, Equipment Engineering Manager, Process Engineering Manager, Production Operations Manager 3rd step - Divide labor according to roles, everyone will bring to the table what that job role requires and is graded on such 4th step - Each works independently to pull together their piece 5th - The team is required to meet once a week to put together their pieces and come up with more tasks to be completed. Meeting more than once a week maybe required, but does not always require all 4 departments to attend meeting. It depends on the action tasks that need internal/external customer support. VGCC Advanced Manufacturing Day 6 - A product/procedure will be produced and demonstrated by the team. Manf Co. SMS/QMS/EMS 7 - The grade will be weighted heavily given the time requirement of the project. Plastic Integrity Nov 8th Grade includes product, demonstration, team cooperation, individual contributions. Dill Air Control NCTAP Field Trips Weekly meeting grades(classwork), identified task grades(quiz), final product grade(test), final demonstration grade(test). 8 - Field Trip grades - There will be grades applied to field trips. Govt sites see classroom website http://nvhsadvmanf.weebly.com/ Scaffolds **Educate workforce Clemson University** see classroom website http://nvhsadvmanf.weebly.com/ Choose Check lists Management team Brian Short Director of Vance County Emergency Operations roles Production Operations, Equipment Visiting Experts Engineering, Safety/Quality Engineering, Process Engineering, Product Engineering 3.00 Understand Leadership and Customer Focused Training in Manufacturing Choose product to produce and scenario 3.01 Understand the production teams in manufacturing Choose SMS, EMS or OMS 3.02 Understand training and leadership in manufacturing 3.03 Understand how to meet customers needs in manufacturing PBL Adv Manf Tractor trailer overturned near local drinking water was (from 2017-18 Blueprint) hauling hazardous chemicals 1.02 Perform safety and environmental assessments

Equipment malfunction created a \$10,000 scrap event

The 6 sigma team would like to make a change in process to save money. This change must not create a quality incident.

Some examples, Student may use an example or come up with their own. Choose a problem to solve where using the QMS/EMS/SMS would be the solution

(From 2017-18 Blue Print)

1.01 Work in a Safe and Productive Manufacturing Workplace 1.02 Perform safety and environmental assessments 1.03 Perform emergency drills and participate in emergency teams 1.04 Identify unsafe conditions and take corrective action 1.05 Provide safety training for all employees 1.06 Train personnel to use equipment safely 1.07 Suggest processes and procedures that support safety of work environment 1.08 Fulfill safety and health requirements for maintenance, installation, and repair 1.09 Monitor safe equipment and operator performance 1.10 Utilize effective, safety-enhancing workplace practices

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SMS

QMS

specific standards

EMS

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(From 2017-18 Blue Print)

- 2.01 Participate in periodic or statistically based internal quality audit activities
- 2.02 Check and document calibration of gages and other data collection equipment
- 2.03 Suggest continuous improvements
- 2.04 Inspect materials and product/process at all stages to ensure they meet specifications

see classroom website http://nvhsadvmanf.weebly.com/

Choose demonstration of plan

- 2.05 Document the results of quality tests
- 2.06 Communicate quality problems
- 2.07 Take corrective actions to restore or maintain quality
- 2.08 Record process outcomes and trends
- 2.09 Identify fundamentals of blueprint reading
- 2.10 Use common measurement systems and precision

measurement tools